

WE CLAIM:

1. An isolated nucleic acid molecule which encodes a cytokine receptor, wherein the complementary nucleotide sequence of said isolated nucleic acid molecule, hybridizes, under stringent conditions, to SEQ ID NO: 7 or SEQ ID NO: 9.
2. The isolated nucleic acid molecule of claim 1, wherein said isolated nucleic acid molecule encodes a protein, the amino acid sequence of which is set forth in SEQ ID NO: 8 or SEQ ID NO: 10.
3. The isolated nucleic acid molecule of claim 1, comprising the nucleotide sequence set forth at SEQ ID NO: 7 or SEQ ID NO: 9.
4. Expression vector comprising the isolated nucleic acid molecule of claim 1, operably linked to a promoter.
5. Expression vector comprising the isolated nucleic acid molecule of claim 2, operably linked to a promoter.
6. Expression vector comprising the isolated nucleic acid molecule of claim 3, operably linked to a promoter.
7. Recombinant cell line or cell strain, transformed or transfected with the isolated nucleic acid molecule of claim 1.
8. Recombinant cell line or cell strain, transformed or transfected with the isolated nucleic acid molecule of claim 2.
9. Recombinant cell line or cell strain, transformed or transfected with the isolated nucleic acid molecule of claim 3.
10. Recombinant cell line or cell strain, transformed or transfected with the expression vector of claim 4.
11. Recombinant cell line or cell strain, transformed or transfected with the expression vector of claim 5.
12. Recombinant cell line or cell strain, transformed or transfected with the expression vector of claim 6.
13. An isolated protein encoded by the isolated nucleic acid molecule of claim 1.
14. The isolated protein of claim 13, wherein said protein is soluble.

15. The isolated protein of claim 13, having the amino acid sequence set forth in SEQ ID NO: 8 or 10.
16. The isolated protein of claim 14, having the amino acid sequence set forth in SEQ ID NO: 10.
17. The isolated protein of claim 13, further comprising a detectable label.
18. The isolated protein of claim 14, wherein said protein is an antagonist for AK155.
19. Isolated antibody which specifically binds to the protein of claim 13.
20. The antibody of claim 19, wherein said antibody is monoclonal antibody.
21. Hybridoma cell line which produces the monoclonal antibody of claim 20.
22. A method for inhibiting effect of AK155 on a cell, comprising contacting said AK155 with the protein of claim 13 in an amount sufficient to bind to and antagonize said AK155.
23. A method for determining if AK155 is present in a sample, comprising contacting said sample with the protein of claim 13, and determining binding of said protein to AK155 as a determination of AK155 in said sample.
24. A method for producing a cytokine receptor comprising transforming or transfecting a cell with the isolated nucleic acid molecule of claim 1, culturing the thus transformed or transfected cell in culture medium to produce said cytokine receptor, and isolating it from said cell or culture medium.
25. A method for producing a cytokine receptor, comprising transforming or transfecting a cell with the expression vector of claim 4, culturing the thus transformed or transfected cell in culture medium to produce said soluble cytokine receptor, and isolating it from said cell or culture medium.
26. A method for determining presence of a protein which binds to AK155, comprising contacting said sample with the antibody of claim 19, and determining binding of said antibody to said protein as a determination of presence of said another which binds AK155 in said sample.
27. The method of claim 26, wherein said antibody is labeled with a detectable label.

said agent, differences therebetween being indicative of said agent being a modulator of binding between AK155 and LICR-2.

1005106-123101
"SECRET"